

In the Claims:

All pending claims are reproduced below.

1. (Previously presented) A tool for cleaning the surface of a workpiece, comprising:
  - a torch operable to produce a flame via combustion;
  - a staging component operable to position the workpiece;
  - an injecting component operable to inject a reactive precursor into the torch;
  - a translating component operable to translate at least one of the workpiece and the torch; and
  - said torch operable to combine a reactive species produced from the reactive precursor chemically with a contaminant on the surface of the workpiece to clean the surface of the workpiece.
2. (Previously presented) A tool for cleaning the surface of a workpiece, comprising:
  - means for producing a flame via combustion;
  - means for positioning the workpiece;
  - means for injecting a reactive precursor into the torch;
  - means for translating at least one of the workpiece and the torch; and
  - means for combining a reactive species produced from the reactive precursor chemically with a contaminant on the surface of the workpiece to clean the surface of the workpiece.
3. (Previously presented) A tool for cleaning the surface of a workpiece, comprising:
  - a torch operable to produce a flame via combustion; and
  - a translator that can translate at least one of a workpiece and said torch;

wherein said torch is configured to receive a reactive precursor and generate a reactive species capable of chemically combining with a contaminant on the surface of the workpiece to produce a gas and leave the surface.

4. (Previously presented) A tool according to claim 3, further comprising:  
a controlling component operable to generate a hydrogen-oxygen flame via the torch.
5. (Previously presented) A tool according to claim 3, further comprising:  
a controlling component operable to produce a stream of atomic radicals that can be used to modify a surface via the torch.
6. (Previously presented) A tool according to claim 3, further comprising:  
a controlling component operable to produce a stream that can modify a surface by a process selected from the group consisting of cleaning, passivating, and activating via the torch.
7. (Previously presented) A tool according to claim 3, further comprising:  
a controlling component operable to produce a stream of atomic radicals that can modify a surface by a process selected from the group consisting of shaping, polishing, etching, planarizing, and redepositing via the torch.
8. (Previously presented) A tool according to claim 3, further comprising:  
a flame suppressor in said torch.

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9. (Previously presented) A tool according to claim 3, wherein:

said torch includes at least one tube to receive process gas, which can be a fuel or an oxidizer.

10. (Previously presented) A tool according to claim 3, wherein:

said torch includes at least one tube to receive process gas selected from the group consisting of oxygen and hydrogen.

11. (Previously presented) A tool according to claim 3, wherein:

said torch has a central tube for receiving a reactive precursor.

12. (Previously presented) A tool according to claim 3, wherein:

said torch has a central tube for receiving a reactive precursor selected from the group consisting of  $\text{CF}_4$ ,  $\text{O}_2$ ,  $\text{Cl}$  and  $\text{NH}_3$ .

13. (Previously presented) A tool according to claim 3, wherein:

said torch has a chemically inert metal tip.

14. (Previously presented) A tool according to claim 3, wherein:

said translator is a rotational stage for supporting the workpiece and rotating the workpiece with respect to the torch.

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15. (Previously presented) A tool according to claim 3, wherein:  
said torch includes a multi-nozzle burner.
16. (Previously presented) A tool for cleaning the surface of a workpiece, comprising:  
a torch operable to receive a reactive precursor and produce a flame via combustion;  
wherein said torch further comprises an internal zone where the reactive precursor is  
fragmented into a stream of atomic radicals that can be used to clean a surface.
17. (Previously presented) A tool for modifying the surface of a workpiece, comprising:  
a torch operable to receive a reactive precursor and produce a flame via combustion;  
wherein said torch further comprises an internal zone where the reactive precursor is  
fragmented into a stream of atomic radicals that can be used to modify a surface.
18. (New) A tool for cleaning the surface of a workpiece, comprising:  
a torch operable to produce a flame via combustion;  
wherein said torch is configured to receive a reactive precursor and generate a reactive  
species capable of chemically combining with a contaminant on the surface of the workpiece  
to produce a gas that leaves and/or modifies the surface.
19. (New) A tool for cleaning the surface of a workpiece, comprising:  
a self-sustaining torch;

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wherein said torch is configured to receive a reactive precursor and generate a reactive species capable of chemically combining with a contaminant on the surface of the workpiece to produce a gas that leaves and/or modifies the surface.

20. (New) A tool according to claim 19, wherein:

the torch is operable to produce a flame via combustion.

21. (New) A tool that can modify the surface of a workpiece, comprising:

a torch operable to produce a flame via combustion; and

wherein said torch is configured to receive a reactive precursor and generate a reactive species capable of chemically combining with a contaminant on the surface of the workpiece to modify the surface.